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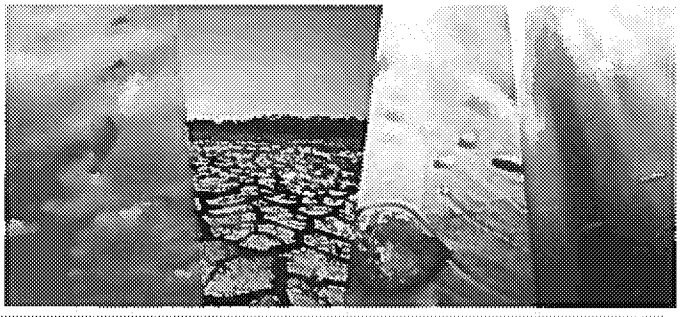
Supplemental Report 1

Additional requested analyses have been added to the original report.

WORK ORDER NUMBER: 14-07-2120

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For
Client: Beta Offshore
Client Project Name: Weekly NPDES Produced Water Monitoring
Attention: Marina Robertson
111 W. Ocean Blvd., Suite 1240
Long Beach, CA 90802-4633

Amanda Porter

Approved for release on 08/06/2014 by:
Amanda Porter
Project Manager

ResultLink ▸

Email your PM ▸

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Contents

Client Project Name: Weekly NPDES Produced Water Monitoring
Work Order Number: 14-07-2120

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Work Order Narrative

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 07/31/14. They were assigned to Work Order 14-07-2120.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are always reported on a wet weight basis.

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.

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Analytical Report

Beta Offshore
111 W. Ocean Blvd., Suite 1240
Long Beach, CA 90802-4633

Date Received: 07/31/14
Work Order: 14-07-2120
Preparation: N/A
Method: EPA 1664A
Units: mg/L

Project: Weekly NPDES Produced Water Monitoring

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NPDES Prod. Water	14-07-2120-1-A	07/30/14 19:53	Aqueous	N/A	08/02/14	08/02/14 18:00	E0802HEML1

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
HEM: Oil and Grease	34.6	1.00	0.800	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NPDES Prod. Water	14-07-2120-1-B	07/30/14 19:53	Aqueous	N/A	08/05/14	08/05/14 16:00	E0805HEML1

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
HEM: Oil and Grease	26.0	1.00	0.800	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NPDES Prod. Water	14-07-2120-1-C	07/30/14 19:53	Aqueous	N/A	08/05/14	08/05/14 16:00	E0805HEML1

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
HEM: Oil and Grease	32.1	1.00	0.800	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NPDES Prod. Water	14-07-2120-1-D	07/30/14 19:53	Aqueous	N/A	08/05/14	08/05/14 16:00	E0805HEML1

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
HEM: Oil and Grease	28.6	1.00	0.800	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-05-119-3651	N/A	Aqueous	N/A	08/02/14	08/02/14 18:00	E0802HEML1

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
HEM: Oil and Grease	ND	1.0	0.80	1.00	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-05-119-3652	N/A	Aqueous	N/A	08/05/14	08/05/14 16:00	E0805HEML1

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
HEM: Oil and Grease	ND	1.0	0.80	1.00	

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Analytical Report

Beta Offshore		Date Received:	07/31/14
111 W. Ocean Blvd., Suite 1240		Work Order:	14-07-2120
Long Beach, CA 90802-4633		Preparation:	N/A
		Method:	EPA 200.8
		Units:	mg/L

Project: Weekly NPDES Produced Water Monitoring

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
NPDES Prod. Water	**14-07-2120-1-E**	**07/30/14 19:53**	**Aqueous**	**ICP/MS 04**	**07/31/14**	**08/01/14 15:11**	**140731L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Zinc	0.443	0.0250	0.00239	5.00	B

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-16-094-437**	**N/A**	**Aqueous**	**ICP/MS 04**	**07/31/14**	**07/31/14 15:45**	**140731L01**

Comment(s): - Results were evaluated to the MDL (DL), concentrations >= to the MDL (DL) but < RL (LOQ), if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qualifiers
Zinc	0.000758	0.00500	0.000479	1.00	J

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RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

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Quality Control - Spike/Spike Duplicate

Beta Offshore		Date Received:	07/31/14
111 W. Ocean Blvd., Suite 1240		Work Order:	14-07-2120
Long Beach, CA 90802-4633		Preparation:	N/A
		Method:	EPA 1664A
Project: Weekly NPDES Produced Water Monitoring			Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-2128-4	Sample	Aqueous	N/A	08/02/14	08/02/14 18:00	E0802HEMS1
14-07-2128-4	Matrix Spike	Aqueous	N/A	08/02/14	08/02/14 18:00	E0802HEMS1
14-07-2128-4	Matrix Spike Duplicate	Aqueous	N/A	08/02/14	08/02/14 18:00	E0802HEMS1

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
HEM: Oil and Grease	37.00	40.00	76.00	98	76.80	100	78-114	1	0-18	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Beta Offshore	Date Received: 07/31/14
111 W. Ocean Blvd., Suite 1240	Work Order: 14-07-2120
Long Beach, CA 90802-4633	Preparation: N/A
	Method: EPA 1664A
Project: Weekly NPDES Produced Water Monitoring	Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-2107-2	**Sample**	**Aqueous**	**N/A**	**08/05/14**	**08/05/14 16:00**	**E0805HEMS1**
14-07-2107-2	**Matrix Spike**	**Aqueous**	**N/A**	**08/05/14**	**08/05/14 16:00**	**E0805HEMS1**
14-07-2107-2	**Matrix Spike Duplicate**	**Aqueous**	**N/A**	**08/05/14**	**08/05/14 16:00**	**E0805HEMS1**

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
HEM: Oil and Grease	3.900	40.00	42.60	97	42.00	95	78-114	1	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - Spike/Spike Duplicate

Beta Offshore	Date Received: 07/31/14
111 W. Ocean Blvd., Suite 1240	Work Order: 14-07-2120
Long Beach, CA 90802-4633	Preparation: N/A
	Method: EPA 200.8
Project: Weekly NPDES Produced Water Monitoring	Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-07-2085-2	Sample	Aqueous	ICP/MS 03	07/31/14	07/31/14 15:43	140731S01
14-07-2085-2	Matrix Spike	Aqueous	ICP/MS 03	07/31/14	07/31/14 15:38	140731S01
14-07-2085-2	Matrix Spike Duplicate	Aqueous	ICP/MS 03	07/31/14	07/31/14 15:42	140731S01

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Zinc	0.2335	0.1000	0.3414	108	0.3378	104	80-120	1	0-20	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Beta Offshore	Date Received: 07/31/14
111 W. Ocean Blvd., Suite 1240	Work Order: 14-07-2120
Long Beach, CA 90802-4633	Preparation: N/A
	Method: EPA 1664A
Project: Weekly NPDES Produced Water Monitoring	Page 1 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-119-3651	LCS	Aqueous	N/A	08/02/14	08/02/14 18:00	E0802HEML1
099-05-119-3651	LCSD	Aqueous	N/A	08/02/14	08/02/14 18:00	E0802HEML1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
HEM: Oil and Grease	40.00	38.50	96	38.80	97	78-114	1	0-18	

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RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS/LCSD

Beta Offshore	Date Received: 07/31/14
111 W. Ocean Blvd., Suite 1240	Work Order: 14-07-2120
Long Beach, CA 90802-4633	Preparation: N/A
	Method: EPA 1664A
Project: Weekly NPDES Produced Water Monitoring	Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-05-119-3652	LCS	Aqueous	N/A	08/05/14	08/05/14 16:00	E0805HEML1
099-05-119-3652	LCSD	Aqueous	N/A	08/05/14	08/05/14 16:00	E0805HEML1

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
HEM: Oil and Grease	40.00	39.30	98	38.70	97	78-114	2	0-18	

RPD: Relative Percent Difference. CL: Control Limits

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Quality Control - LCS

Beta Offshore		Date Received:	07/31/14
111 W. Ocean Blvd., Suite 1240		Work Order:	14-07-2120
Long Beach, CA 90802-4633		Preparation:	N/A
		Method:	EPA 200.8
Project: Weekly NPDES Produced Water Monitoring			Page 3 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-16-094-437	LCS	Aqueous	ICP/MS 04	07/31/14	07/31/14 15:49	140731L01

Parameter	Spike Added	Conc. Recovered	LCS %Rec.	%Rec. CL	Qualifiers
Zinc	0.1000	0.1128	113	80-120	

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RPD: Relative Percent Difference. CL: Control Limits

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Sample Analysis Summary Report

Work Order: 14-07-2120 Page 1 of 1

Method	Extraction	Chemist ID	Instrument	Analytical Location
EPA 1664A	N/A	691	N/A	1
EPA 200.8	N/A	598	ICP/MS 04	1

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Glossary of Terms and Qualifiers

Work Order: 14-07-2120 Page 1 of 1

Qualifiers	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution. Therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to suspected matrix interference. The associated LCS recovery was in control.
4	The MS/MSD RPD was out of control due to suspected matrix interference.
5	The PDS/PDSD or PES/PESD associated with this batch of samples was out of control due to suspected matrix interference.
6	Surrogate recovery below the acceptance limit.
7	Surrogate recovery above the acceptance limit.
B	Analyte was present in the associated method blank.
BU	Sample analyzed after holding time expired.
BV	Sample received after holding time expired.
E	Concentration exceeds the calibration range.
ET	Sample was extracted past end of recommended max. holding time.
HD	The chromatographic pattern was inconsistent with the profile of the reference fuel standard.
HDH	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but heavier hydrocarbons were also present (or detected).
HDL	The sample chromatographic pattern for TPH matches the chromatographic pattern of the specified standard but lighter hydrocarbons were also present (or detected).
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
ME	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
SG	The sample extract was subjected to Silica Gel treatment prior to analysis.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are reported on a wet weight basis.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

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14-07-2120

LTS Environmental Inc. 704 Adirondack Avenue Ventura, CA 93003 805-644-4560	**Report to:** Marina Robertson 111 W. Ocean Blvd. Suite 1240 Long Beach, CA. 90802	**Bill to:** Marina Robertson 111 W. Ocean Blvd. Suite 1240 Long Beach, CA 90802

FACILITY: Platform Elly
SAMPLER NAME: Bill Rollins
PROJECT/CHARGE #: Weekly NPDES Produced Water Monitoring
RESULTS REQUIRED: 48 hr RUSH
RESULTS BY: PHONE: _____ E-MAIL X mrobertson@betaoffshore.com

SUBMITTED TO: Calscience PHONE: 714-895-5494
REPORT TO: Marina Robertson PHONE: 562-683-3497
COPIES TO: Platform Supervisor PHONE: 562-606-5705
S.G.Lawry @ LTS PHONE: 805-644-4560
704 Adirondack, Ventura, CA 93003

SAMPLE NO.	SAMPLE ID	GRAB/ COMP.	VOLUME	DATE/TIME COLLECTED	PRESERV.	ANALYSES REQUESTED (METHOD)	
1	NPDES Prod.Water	grab	1 L amber	7-30-14 1953	~~HCl~~ H2SO4	Oil & Grease (EPA 1664)	
2	NPDES Prod.Water	grab	1 L amber	7-30-14 1953	~~HCl~~	Oil & Grease (EPA 1664)	Hold
3	NPDES Prod.Water	grab	1 L amber	7-30-14 1953	~~HCl~~	Oil & Grease (EPA 1664)	Hold
4	NPDES Prod.Water	grab	1 L amber	7-30-14 1953	~~HCl~~	Oil & Grease (EPA 1664)	Hold
5	NPDES Prod.Water	grab	200-500 ml	7-30-14 1953	HNO3	Zinc (EPA 200.8)	Report MDLs and PQLs
	Caution to Sample Collector: all sample bottles contain a concentrated acid preservative. Follow all procedures						
	outlined in your NPDES manual and use proper PPE when collecting the samples.						

Comments: For Samples 1-4: Analyze Sample #1 only - hold other samples until further notice.

Relinquished by: _____ Date: 7/31/14
Received by: [illegible] ECL Time: 1229

Relinquished by: _____ Date: _____
Received by: _____ Time: _____

Relinquished by: [illegible] Date: 7/31/14
Received by: [illegible] ECL Time: 15:45

Relinquished by: _____ Date: _____
Received by: _____ Time: _____

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WORK ORDER #: 14-07-2120

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: BETA OFFSHORE DATE: 07/31/14

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.3 °C - 0.3 °C (CF) = 2.0 °C ☐ Blank ☑ Sample

☐ Sample(s) outside temperature criteria (PM/APM contacted by: _____)

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ Received at ambient temperature, placed on ice for transport by Courier.

Ambient Temperature: ☐ Air ☐ Filter Checked by: 676

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A Checked by: 676

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present Checked by: 659

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☒ 659 7/31/14	☑	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ No analysis requested. ☑ Not relinquished. ☐ No date/time relinquished.			
Sampler's name indicated on COC	☑	☐	☐
Sample container label(s) consistent with COC	☐	☑	☐
Sample container(s) intact and good condition	☑	☐	☐
Proper containers and sufficient volume for analyses requested	☑	☐	☐
Analyses received within holding time	☑	☐	☐
Aqueous samples received within 15-minute holding time			
☐ pH ☐ Residual Chlorine ☐ Dissolved Sulfides ☐ Dissolved Oxygen	☐	☐	☑
Proper preservation noted on COC or sample container	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace	☐	☐	☑
Tedlar bag(s) free of condensation	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve (_____) ☐EnCores® ☐TerraCores® ☐_____

Aqueous: ☐VOA ☐VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGBna_2 ☑1AGBs

☐500AGB ☐500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐1PBna ☐500PB

☐250PB ☑250PBn_4 ☐125PB ☐125PBznna ☐100PJ ☐100PJna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Canister Other: ☐_____ Trip Blank Lot#:_____ Labeled/Checked by: 659

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: WO3

Preservative: h: HCL n: HNO_3 na_2:$Na_2S_2O_3$ na: NaOH p: H_3PO_4 s: H_2SO_4 u: Ultra-pure znna: $ZnAc_2$+NaOH f: Filtered Scanned by: WO3

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WORK ORDER #: 14-07-2120

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

- ☐ **Sample(s) NOT RECEIVED but listed on COC**
- ☐ **Sample(s) received but NOT LISTED on COC**
- ☐ **Holding time expired** – list sample ID(s) and test
- ☐ **Insufficient quantities for analysis** – list test
- ☐ **Improper container(s) used** – list test
- ☐ **Improper preservative used** – list test
- ☐ **No preservative noted on COC or label** – list test & notify lab
- ☐ **Sample labels illegible** – note test/container type
- ☐ **Sample label(s) do not match COC** – Note in comments
  - ☐ **Sample ID**
  - ☐ **Date and/or Time Collected**
  - ☐ **Project Information**
  - ☐ **# of Container(s)**
  - ☐ **Analysis**
- ☐ **Sample container(s) compromised** – Note in comments
  - ☐ **Water present in sample container**
  - ☐ **Broken**
- ☑ **Sample container(s) not labeled**
- ☐ **Air sample container(s) compromised** – Note in comments
  - ☐ **Flat**
  - ☐ **Very low in volume**
  - ☐ **Leaking (Not transferred - duplicate bag submitted)**
  - ☐ **Leaking (transferred into Calscience Tedlar® Bag*)**
  - ☐ **Leaking (transferred into Client's Tedlar® Bag*)**
- ☐ **Other:** _____

Comments:

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: DSJ 07/3/14

SOP T100_090 (06/02/14)

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